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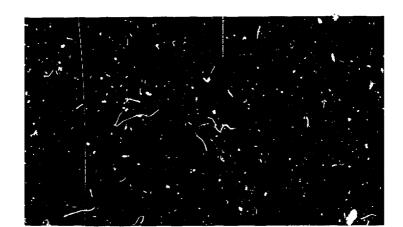
Student Attitudes, Student Behavior

ABSTRACT

Part 2 of a study designed to investigate the effects of individual goal-setting conferences on attitude toward reading and on reading achievement reports discussion of the findings, appendixes including materials and tests used, and a bibliography. Two parallel studies were conducted, the first using third and fourth graders and the second using first and second graders. Subjects were blocked by sex and previous reading achievement and assigned to three treatment groups: (1) individual goal-setting conferences, (2) individual conferences without goal-setting, and (3) control. All groups had the same classroom treatment. Reading achievement was tested by an experimenter-devised test and by appropriate subtests of the Wisconsin Tests of Reading Skill Development. Attitude was measured by the Primary Pupil Reading Attitude Inventory and by an experimenter-devised scale. Effects of goal-setting were also measured. The results showed that pupils in group 1 set fewer goals, experienced less discrepancy between goals set and achieved, but also indicated less confidence in the ability to achieve goals. With respect to reading achievement, younger children showed significant differences on standardized and experimenter-designed measures, but older children did not. No significant differences in attitude were found. (Author/MS)



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al Report No. 142 (Part 2 of Two Parts)

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> Report from the Project on Situational Variables and Efficiency of Concept Learning



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> Report from the Project on Situational Variables and Efficiency of Concept Learning

> > by John Powers Gaa

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> Wisconsin Research and Developement Center for Cognitive Learning The University of Wisconsin Madison, Wisconsin

> > September, 1970

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This Technical Report is from the Situational Variables and Efficiency of Concept Learning Project in Program 1. General objectives of the Program are to generate new knowledge about concept learning and cognitive skills, to synthesize existing knowledge, and to develop educational materials suggested by the prior activities. Contributing to these Program objectives, the Concept Learning Project has the following five objectives: to identify the conditions that facilitate concept learning in the school setting and to describe their management, to develop and validate a schema for evaluating the studen's level of concept understanding, to develop and validate a model of cognitive processes in concept learning, to generate knowledge concerning the semantic components of concept learning, and to identify conditions associated with motivation for school learning and to describe their management.



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ABSTRACT

This study was designed to investigate the effects of individual goalsetting conferences on attitudes toward reading and classes in reading skills reading skill achievement, and goal-setting behavior.

Two parallel studies were conducted using students in Unit D (corresponding to Third and Fourth Grades) and Unit B (corresponding to First and Second Grades) in a Multi-Unit elementary school. Students in each Unit were placed in the experimental population if they had not previously achieved the reading skill to be studied. So were then blocked by sex and previous reading achievement and assigned to one of three treatment groups: individua goal-setting conferences, individual conferences, and control.

The Goal-Setting treatment group received an individual goal-setting conference once a week. They were asked to set goals for the coming week and were given feedback on the accuracy of previous goals and on their achiev ment in their reading skill class. The Conference treatment group received weekly individual conferences, but did not set goals for the coming week. The Control group did not receive any individual conferences but received the same in-class instruction as the other treatment groups.

Achievement level was assessed using two types of measures. In each Unit the subtes. (s) of the Wisconsin Tests of Reading Skill Development (WTRSD) which was appropriate for the reading skill leing studied was administered. So in each Unit were also given an experimenter-developed test(s) covering the same reading skill.

Three dependent measures were examined in attempting to define the effects of the goal-setting conferences on subsequent goal-setting behavior: number of goals set, absolute difference between number of goals set and number of goals achieved, and the confidence shown in their ability to attair the selected goals.

Two instruments were used in each Unit to measure the effect of the experimental treatment on attitude. The Primary Pupil Reading Attitude Inventory was used to measure attitude toward reading and an attitude scale developed by the experimenter was used to measure attitude toward the reading skills classes.

The results of the study are as follows:

- 1. The group that participated in the individual goal-setting conferences, in comparison with those who did not, set fewer goals, showed a smaller absolute difference between the number of goals set and number of goals attained, and also indicated less confidence in their ability to achieve the goals they had set.
- 2. In Unit B, there were significant differences on the WTRSD subtests between the group that participated in the individual goal-setting conferences and those who did not as well as large, but not significant, differences on the experimenter-developed measures. There were no significant differences on achievement measures in Unit D.
- There were no significant differences between treatment groups on attitude measures in either Unit.



Chapter V

DISCUSSION

In this study the effects of ind idual goal-setting conferences on classroom attitudes and achievement and on goal-setting behavior have been examined. No attempt has been made to fully evaluate the procedure in terms of time, money, training needed for teachers, etc.; but rather the intent has been to establish that individual goal-setting conferences do affect classroom achievement and to investigate the goal-setting process itself. In order to assess the effects of the goal-setting conferences the dependent measures are considered separately.

Attitude Measures

In neither Unit D nor Unit B was there a difference in attitude as a function of treatment. No significant differences were found between the goal-setting and non-goal-setting groups or between the conference and control groups. Because the duration of the study was only three weeks, the failure to find differences in attitude toward reading in general is not surprising; the likelihood of changing long-standing attitudes in this period of time is small. There was also no difference between treatment groups in their attitudes toward the reading skills class. On an intuitive level, one would expect the goal-setting group to have a more positive attitude toward the class due to generally higher achievement and more individual attention.



As Bayfield and Crockett (1955) and Locke (1965) have pointed out, however, attitude and performance are not necessivily correlated. Perhaps the only possible explanation which can be proposed to explain the lack of differences in attitude toward the reading skills class is to point out that the average attitude score for all students was extremely high, thereby effectively producing a ceiling effect and eliminating any chance of discriminating among groups.

Achievement Measures

In the case of both the experimenter-developed and the criterion-referenced achievement tests an increase in the effectiveness of the goal-setting procedure was noted for the second Unit tested, Unit B.

After examining the results of Unit D it had been decided to place more emphasis on providing feedback relating to the ability to handle the specific reading skills. With the change in emphasis, goal-setting students in Unit B showed significantly higher achievement on the criterion-referenced achievement tests and, although the differences were not statistically significant, attained a higher level of achievement on the experimenter-developed tests as well. In neither Unit were there any differences between the conference and control groups. This finding is of extreme importance because it indicates that the higher achievement of the goal-setting group can be attributed to the goal-setting procedures per se rather than to a general "conference effect."

Technical characteristics of the Experimenter-Developed tests are presented in Appendix K.

Goal-Setting Behavior



In both Unit D and Unit B behavior of the goal-setting group differed at the .01 level of significance from that displayed by the conference and control groups. No differences were found in the conference versus control comparisons. Again, the differential effect found in the goal-setting versus non-goal-setting comparisons must be attributed to the goal-setting procedures employed rather than to a general "conference effect"

In both Units, the goal-setting group set fewer goals than the other groups. As discussed previously, this is interpreted as representing a more realistic statement of goals. This type of interpretation is supported by the fact that the goal-setting groups showed smaller differences between the number of goals set and the number of goals attained. In other words, the goals were more accurate and more realistic. This seems to support the findings of Porat and Haas (1969) that more information (feedback in this case) results in more accurate levels of goal setting and decision making.

The consistency of goal-setting behavior between Units is also apparent in the confidence levels displayed by the treatment groups. In both Units, the goal-setting group had lower confidence scores than did the non-goal setting groups. The "lower scores" are again interpreted as reflecting more realistic appraisals by the students of their chances for success. It would seem that a greater percentage of goal-setting students realize that they would probably require help in learning and mastering the reading skills and that they might not be able to achieve all of the goals which they had set.



With respect to the experimental questions which the study sought to answer, the following conclusions may be drawn:

A. With respect to attitude:

- There were no significant differences between goal-setting and non-goal-setting treatment groups.
- There were no significant differences between the conference and control groups.
- There were no significant differences as a function of either sex or ability level.

B. With respect to achievement:

- 1. There were significant differences between goal-setting and non-goal-setting treatment groups on criterion-referenced achievement tests and non-significant differences on the experimenter-developed tests in Unit B. The goal-setting group showed a higher level of performance than the other treatment groups in Unit B following a change in emphasis in the conference procedure used in Unit D to allow more feedback concerning attainment of skills.
- 2. There were no significant differences between the conference and control groups in either Unit. This indicates that e perimental differences between the goal-setting and non-goal-setting groups may be attributed to the goal-setting procedures.
- 3. There were significant differences on all achievement measures as a function of the level of previous achievement. In each case the test scores increased as the level of previous achievement increased.
- 4. There were no significant differences as a function of sex.



- C. With respect to goal-setting behavior:
 - 1.. The goal-setting group differed significantly in goal-setting behavior from the non-goal-setting groups. They set fewer goals, had a smaller difference between the number of goals set and the number of goals attained, and showed lower confidence in their ability to attain the goals they had set.
 - 2. There were no significant differences between the conference and control groups. This indicates that experimental differences between the goal-setting and non-goal-setting groups may be attributed to the goal-setting procedures.
 - There were no significant differences as a function of sex or level of previous achievement.

With respect to the expected relationships stated in Chapter III, the following conclusions may be drawn:

Attitude

 The expected difference in attitude toward reading and the reading skill class was not found. There were no significant differences between goal-setting and non-goal-setting or between conference and control groups in either Unit.

Achievement

1. The expected difference in achievement was found in Unit B.

The goal-setting treatment group attained higher achievement
levels on both the experimenter-developed and criterionreferenced achievement tests in Unit B. The differences on
the criterion-referenced tests were significant at the .05
level.



 No significant differences in achievement were found between the conference and control groups in either Unit.

Goal-Setting Behavior

- The goal-setting and non-goal-setting treatment groups differed significantly in their goal-setting behavior.
- No significant differences in goal-setting behavior were found between the conference and control groups in either Unit.

The present study demonstrated that the use of an individual goalsetting conference can improve the classroom achievement of students and investigated the effects of the procedure on goal-setting behavior.

Clearly, the significant differences found between treatment groups in relation to their goal-setting behavior are attributable to the effect of the goal-setting conferences, since conferences by themselves (without goal-setting) showed no effect on goal-setting relative to the control. In neither Unit were there differences as a function of sex, previous achievement level, or sex by previous achievement level; the only differences were as a function of treatment. Goal-setting Ss on the average set fewer goals, had a smaller absolute difference between number of goals set and number of goals achieved, and had a lower confidence score in their ability to achieve the goals they had set. This last finding can be partially explained by the fact that non-goal-setting Ss tended to show extremely high confidence in their ability to attain their goals.

The findings regarding the effect of individual goal-setting conferences on achievement are less clear cut. In the first Unit studied (Unit D) no significant differences were found, while in the second thit (Unit B), significant differences did appear. The fact that



students received more feedback in relation to skill attainment in Unit B conferences may explain this difference. If this is the case, implementation of the procedure with classroom teachers giving the conferences should produce larger differences in that more accurate feedback could then be provided. Another factor which might help increase the goalsetting conference effect would be daily teacher reminders in class to concentrate on the goals set for the week. This was not done in this study because Ss from all treatment conditions were present in each classroom in an attempt to minimize teacher bias. It would seem that in normal classroom use that these considerations would probably combine to increase the effects found in the present study. This is an empirical question however, which should be studied before final recommendations are given regarding the goal-setting procedures.

In this study the effects of the goal-setting process on achievement, attitudes, and goal-setting behavior were examined, but no attempt was made to fully evaluate the procedure. Besides the possible teacher influences mentioned above, factors such as cost, feasibility, inservice training needed and time must be investigated.

In future studies the target population should also be varied. As Katz (1967) has pointed out, age, socio-economic status, and race affect the ability to effectively use performance feedback. Because feedback is an important part of the individual goal-setting process, these variables should be systematically investigated.

However, other factors such as age, Unit level, skill studied, etc. might also be considered in accounting for the differences in Unit B. Since all of these factors were unavoidably confounded in the present study, this change cannot be attributed to a single variable.



The significance of this study lies in the establishment of goalsetting procedures which affect ongoing classroom achievement and in
the more precise delineation of the attributes of goal-setting per se.
The attributes of goal-setting which have been studied will contribute
to the general knowledge of goal-setting in both school and non-school
situations. The goal-setting procedures must now be more fully
evaluated in everyday classroom use, but tentatively provide the
teacher with an important motivational technique to improve student
achievement.



Appendix A

STUDENT GOAL-SETTING CHECK LISTS FOR UNITS D AND B



Student Goal-Setting Check List Unit D

Goal-Setting

Name:

Date:	
WHICH OF TH	HESE WILL YOU BE ABLE TO DO BY THE END OF THIS WEEK?
	Synonym Goal Check List
	know what the word synonym means.
	If I am given two words, once in a while I can tell if they have the same or different memings.
	If I am given two words, most of the time I can tell if they have the same or different meanings.
	If I am given two words, I can almost always tell if they have the same or different meanings.
	If my teacher tells me a word, once in a while I can pick out a word which means the same thing from a list of worda.
	If my teacher tells me a word, most of the time I can pick out a word which means the same thing from a list of words.
	If my teacher tells me a word, I can almost always pick out a word which means the same thing from a list of words.
c	If my teacher tells me a word, once in a while I can pick out a word which means the same thing from the words in a sentence.
c	If my teacher tells me a word, most of the time I can pick out a word which means the same thing from the words in a sentence.
	If my teacher tells me a word, I can almost always pick out a word which means the same thing from the words in a sentence



	If I am given a word in a sentence, once in a while I can pick
	out a word which means the same thing from a list of words. If I am given a word in a sentence, most of the time I can pick
	out a word which means the same thing from a list of words.
	If I am given a word in a sentence, I can almost always pick out a word which means the same thing from a list of words.
	If my teacher tells me a word, once in a while I can tell her a word which means the same thing.
	If my teacher tells me a word, most of the time I can tell her a word which means the same thing.
	If my teacher tells me a word, I can almost always tell her a word which means the same thing.
	If I am given a word in a sentence, once in a while I can use a word which means the same thing in the sentence.
	If I am given a word in a sentence, most of the time I can use a word which means the same thing in the sentence.
	If I am given a word in a sentence, I can almost always use a word which means the same thing in the sentence.
	If I am given a word, once in a while I can use a word which means the same thing in a sentence.
	If I am given a word, most of the time I can use a word which means the same thing in a sentence.
ت	If I am given a word, I can slmost always use a word which means the same thing in a sentence.
\Box	If there is a Jentence $\ensuremath{\mathcal{I}}$ don't know, once in a while I can use synonyms to understand the sentence.
	If there is a sentence I don't know, most of the time I can use synonyms to understand the sentence.
	If there is a sentence I don't know, I can slmost always use synonyms to understand the sentence.



Antonym Goal Check List

	I know what the word antonym means.
	If I am given two words, once in a while I can tell if they mean opposite things.
	If I am given two words, most of the time I can tell if they mean opposite things.
	If I am given two words, I can almost always tell if they mean opposite things.
\Box	If my teacher tells me a word, once in a while I can pick out a word which means the opposite from a list of words.
	If my teacher tells me a word, most of the time I can pick cut a word which means the opposite from a list of words.
	If my teacher tells me a word, I can almost always pick out a word which means the opposite from a list of words.
	If my teacher tells me a word, once in a while I can pick out a word which means the opposite from the words in a sentence.
	If my teacher tells me a word, most of the time I can pick out a word which means the opposite from the words in a sentence.
	If my teacher tells me a word, I can almost always pick out a word which means the opposite from the words in a sentence.
	If I am given a word in a sentence, once in a while I can pick out a word which means the opposite from a list of words
	If I am given a word in a sentence, most of the time I can pick out a word which means the opposite from a list of words
	If I am given a word in a sentence, I can almost always pick out a word which means the opposite from a list of words.



If my teacher tells me a word, once in a while I can tell her a word which means the opposite.
If my teacher tells me a word, most of the time I can tell her a word which means the opposite.
If my teacher tells me a word, I can almost always tell her a word which means the opposite.
If I am given a word, once in a while I can use a word which means the opposite in a sentence.
If I am given a word, most of the time I can use a word which means the opposite in a sentence.
If I am given a word, I can almost always use a word which means the opposite in a sentence.



Compound Words Goal Check List Unit B

Name:

	Date:
	WHICH OF THESE ARE YOU GOING TO TRY TO DO BY THE END OF THIS WEEK?
C 3	I will know what a compound word is.
	If I am given a compound word, once in a while i will be able to tell what words make it up.
	If I am given a compound word, most of the time I will be able to tell what words make it up.
	If I am given a compound word, I will almost always be able to tell what words make it up.
	If I am given a list of words, once in a while I will be able to tell which ones are compound words.
0	If I am given a list of words, most of the time I will be able to tell which ones are compound words.
	If I am given a list of words, I will almost always be able to tell which ones are compound words.
	If I am given two words, once in a while I will be able to tell if they can be made into a compound word.
	If I am given two words, most of the time I will be able to tell if they can be made into a compound word.
	If I am given two words, I will almost always be able to tell if they can be made into a compound word.
	if I am given two words which can be made into a compound word, once in a while I will be able to combine them in the right way.
	If I am given two words which can be made into a compound word, most of the time I will be able to combine them in the right way.
\Box	If I am given two words which can be made into a compound word, I will almost always be able to combine them in the right way.



If I am asked to, once in a while I will be able to give an example of a compound word. If I am asked to, most of the time I will be able to give an example of a compound word. If I am asked to, I will almost always be able to give an example of a compound word. Base Words and Endings Goal Check List I will know what a base word is. I will know what an ending is. \Box If I am given a word, once in a while I will be able to tell what the base is and what the ending is. \Box If I am given a word, most of the time I will be able to tell what the base is and what the ending is. If I am given a word, I will almost always be able to tell what the base is and what the ending is. If I am given a list of words, once in a while I will be able to tell which are base words with endings. If I am given a list of words, most of the time I will be able to tell which are base words with endings. If I am given a list of words, I will almost always be able to tell which are base words with endings. If I am given a base word, once in a while I will be able to give an ending for it. If I am given a base word, most of the time I will be able to give an ending for it.

If I am given a base word, I will almost always be able to give



 \Box

an ending for it.

u	

(•				ord missing, once in a while I will do or a base word with an ending.	
					ord missing, most of the timel will do or a base word with an ending.	
0	•				ord missing, I will almost always a a base word or a base word with	
	If I am give able to use				ending, once in a while I will be	
	If I am give able to use				ending, most of the time I will be	©.
0	If I am give to use them			and an	ending, I will almost always be able	
	l will know of base word		these endi	ngs me	an and how they change the meaning	
			ed		у	
			ន		est	
			er		tion	
		0	ing	0	sion	



Appendix B

COAL REMINDER SHEETS FOR UNITS D AND B



Goal Reminder Sheet

for Student-Set Goals

Unit D

Student's Name:

Date:

THESE ARE THE GOALS YOU HAVE CHECKED FOR THIS WEEK. YOU SHOULD TRY TO LEARN TO DO THESE BY FRIDAY.

Synonym Goal Check List

	I know what the word synonym means.
\subset	If I am given two words, once in a while I can tell if they have the same or different meanings.
()	If I am given two words, most of the time I can tell if they have the same or different meanings.
C3	If I am given two words, I can almost always tell if they have the same or different meanings.
	If my teacher tells me a word, once in a while I can pick out a word which means the same thing from a list of words.
\Box	If my teacher tells me a word, most of the time I can pick out a word which means the same thing from a list of words.
\Box	If my teacher tells me a word, I can almost always pick out a word which means the same thing from a list of words.
C	If my teacher tells me a word, once in a while I can pick out a word which means the same thing from the words in a sentence.
c⊐	If my teacher tells me a word, most of the time I can pick out a word which means the same thing from the words in a sentence.
C⊐	If my teacher tells me a word, I can almost always pick out a word which means the same thing from the words in a sentence.



	If I am given a word in a sentence, once in a while I can pick out a word which means the same thing from a list of words.
	If I am given a word in a sentence, most of the time I can pick out a word which means the same thing from a list of words.
	If I am given a word in a sentence, I can almost always pick out a word which means the same thing from a list of words.
	If my teacher tells me a word, once in a while I can tell her a word which means the same thing.
	If my teacher tells me a word, most of the time I can tell her a word which means the same thing.
<u>_</u>	If my teacher tells me a word, I can almost always tell her a word which means the same thing.
	If I am given a word in a sentence, once in a while I can use a word which means the same thing in the sentence.
	If I am given a word in a sentence, most of the time I can use a word which means the same thing in the sentence.
	If I am given a word in a sentence, I can almost always use a word which means the same thing in the sentence.
	If I am given a word, once in a while I can use a word which means the same thing in a sentence.
	If I am given a word, most of the time I can use a word which means the same thing in a sentence.
C	If I am given a word, I can almost always use a word which means the same thing in a sentence.
	If there is a sentence I don't know, once in a while I can use synonyms to understand the sentence.
	If there is a sentence I don't know, most of the time I can use synonyms to understand the sentence.
	If there is a sentence I don't know. I can almost always use



synonyms to understand the sentence.

Antonym Goal Check List

I know what the word antonym means.
If I am given two words, once in a while I can tell if they mean opposite things.
If I am given two words, most of the time I can tell if they mean opposite things.
If I am given two words, I can almost always tell if they mean opposite things.
If my teacher tells me a word, once in a while I can pick out a word which means the opposite from a list of words.
If my teacher tells me a word, most of the time I can pick out a word which means the opposite from a list of words.
If my teacher tells me a word, I can almost always pick out a word which means the opposite from a list of words.
If my teacher tells me a word, once in a while I can pick out a word which means the opposite from the words in a sentence.
If my teacher tells me a word, most of the time I can pick out a word which means the opposite from the words in a sentence.
If my teacher tells r a word, I can almost always pick out a word which means the opposite from the words in a sentence.
If I am given a word in a sentence, once in a while I can pick out a word which means the opposite from a list of words.
If I am given a word in a sentence, most of the time I can pick out a word which means the opposite from a list of words.
If I am given a word in a sentence, I can almost always pick



If my teacher tells me a word, once in a while I can tell her a word which means the opposite.
If my teacher tells me a word, most of the time I can tell her a word which means the opposite.
If my teacher tells me a word, I can almost always tell her a word which means the opposite.
If I am given a word, once in a while I can use a word which means the opposite in a sentence.
If I am given a word, most of the time I can use a word which means the opposite in a sentence.
If I am given a word, I can almost always use a word which

means the opposite in a sentence.



Goal Reminder Sheet for Student-Set Goals Unit B

Name:

Date:

	THESE ARE THE GOALS YOU HAVE CHECKED FOR THIS WEEK. YOU SHOULD TRY TO LEARN TO DO THESE BY THE END OF THE WEEK.
0	I will know what a compound word is.
0	If I am given a compound word, once in a while I will be able to tell what words make it up.
0	If I am given a compound word, most of the time I will be able to tell what words make it up.
0	If I am given a compound word, I will almost always be able to tell what words make it up.
0	If I am given a list of words, once in a while I will be able to tell which ones are compound words.
—	If I am given a list of words, most of the time I will be able to tell which ones are compound words.
0	If I am given a list of words, I will almost always be able to tell which ones are compound words.
	If I am given two words, once in a while I will be able to tell if they can be made into a compound word.
O	If I am given two words, most of the time I will be able to tell if they can be made into a compound word.
	If I am given two words, I will almost always be able to tell if they can be made into a compound word.
	If I am given two words which can be made into a compound word, once in a while I will be able to combine them in the right way.
	If I am given two words which can be made into a compound word, most of the time I will be able to combine them in the right way.
	If I am given two words which can be made into a compound word, I will almost always be able to combine them in the right way.



0	If I am asked to, once in a while I will be able to give an example of a compound word.
٦	If I am asked to, most of the time I will be able to give an exampl of a compound word.
	If I am asked to, I will almost always be able to give an example of a compound word.
	Base Words and Endings Goal Check List
	1 will know what a base word is.
C	I will know what an ending is.
a	If I am given a word, once in a while I will be able to tell what the base is and what the ending is.
0	If I am given a word, most of the time I will be able to tell what the base is and what the ending is.
	If I am given a word, I will almost always be able to tell what the base is and what the ending is.
<u> </u>	If I am given a list of words, once in a while I will be able to tell which are base words with endings.
0	If I am given a list of words, most of the time I will be able to tell which are base words with endings.
	If I am given a list of words, I will almost always be able to tell which are base words with endings.
	If I am given a base word, once in a while I will be able to give an ending for it.
	If I am given a base word, most of the time I will be able to give an ending for it.
0	If I am given a base word, I will almost always be able to give an ending for it.



<u> </u>	If I am given a sentence with a word missing, once in a while I will know whether to put in a base word or a base word with an ending.
0	If I am given a sentence with a word missing, most of the timeI will know whether to put in a base word or a base word with an ending.
0	If I am given a sentence w th a word missing, I will almost always be able to know whether to put in a base word or a base word with an ending.
_	If I am given a base word and an ending, once in a while I will be able to use them in a sentence.
	If I am given a base word and an ending, most of the time I will be able to use them in a sentence.
	If I am given a base word and an ending, I will almost always be able to use them in a sentence.
	I will know what these endings mean and how they change the meaning of base words:
	ed y
	☐ s ☐ est
	er C tion
	ing ing sion
	lyfull

Appendix C

CHECK LISTS FOR TEACHER EVALUATION OF GOALS ATTAINED FOR UNITS D AND B



Check List for

Teacher Evaluation of Goals Attained Unit D

Teacher Evaluation

sentence.

Student's Name:

Date:

WHICH OF THESE HAS THE STUDENT BEEN ARLE TO ACCOMPLISH DURING THE PAST WEEK?

Synonym Goal Check List

	I know what the word aynonym means.
	If I am given two words, once in a while I can tell if they have the same or different meanings.
	If I am given two words, most of the time I can tell if they have the same or different meanings.
	If I am given two words, I can almost always tell if they have the same or different meanings.
	If my teacher tells me a word, once in a while I can pick out a word which means the same thing from a list of words.
	If my teacher tells me a word, most of the time I can pick out a word which means the same thing from a list of words.
	If my teacher tells me a word, I can almost always pick out a word which means the same thing from a list of words.
	If my teacher tells me a word, once in a while I can pick out a word which means the same thing from the words in a sentence.
<u></u>	If my teacher tells me a word, most of the time I can pick out a word which means the same thing from the words in a

If my teacher tells me a word, I can almost always pick out

a word which means the same thing from the words in a sentence.



	If I am given a word in a sentence, once in a while I can pick out a word which means the same thing from a list of words.
\Box	If I am given a word in a sentence, most of the time I can pic out a word which means the same thing from a list of words.
	If I am given a word in a sentence, I can almost always pick out a word which means the same thing from a list of words.
	If my teacher tells me a word, once in a while I can tell her a word which means the same thing.
(If my teacher tells me a word, most of the time I can tell her a word which means the same thing.
	If my teacher tells me a word, I can almost always tell her a word which means the same thing.
	If I am given a word in a sentence, once in a while I can use a word which means the same thing in the sentence.
	If I am given a word in a sentence, most of the time I can use a word which means the same thing in the sentence.
	If I am given a word in a sentence, I can almost always use a word which means the same thing in the sentence.
	If I am given a word, once in a while I can use a word which means the same thing in a sentence.
	If I am given a word, most of the time I can use a word which means the same thing in a sentence.
	If I am given a word, I can almost always use a word which means the same thing in a sentence.
	If there is a sentence I don't know, once in a while I can use synonyms to understand the sentence.
	If there is a sentence I don't know, most of the time I can us synonyms to understand the sentence.
c-7	If there is a sentence I don't know. I can simost siways use

synonyms to understand the sentence.



Antonym Goal Check List

	I know what the word antonym means.
	If I am given two words, once in a while I can tell if they mean opposite things.
	If I am given two words, most of the time I can tell if they mean opposite things.
	If I am given two words, I can almost always tell if they mean opposite things.
	If my teacher tells me a word, once in a while I can pick out a word which means the opposite from a list of words.
ت	If my teacher tells me a word, most of the time I can pick out a word which means the opposite from a list of words.
	If my teacher tells me a word, I can almost always pick out a word which means the opposite from a list of words.
	If my teacher tells me a word, once in a while I can pick out a word which means the opposite from the words in a sentence.
	If my teacher tells me a word, wost of the time I can pick out a word which means the opposite from the words in a sentence.
	If my teacher tells me a word, I can almost always pick out a word which means the opposite from the words in a sentence.
	If I am given a word in a sentence, once in a while I can pick out a word which means the opposite from a list of words
	If I am given a word in a sentence, most of the time I can pick out a word which means the opposite from a list of words.
Ċ	If I am given a word in a sentence, I can almost always pick out a word which means the opposite from a list of words.



If my teacher tells me a word, once in a while I can tell her a word which means the opposite.
If my teacher tells me a word, most of the time I can tell her a word which means the opposite.
If my teacher tells me a word, I can almost always tell her a word which means the opposite.
If I am given a word, once in a while I can use a word which means the opposite in a sentence.
If I am given a word, most of the time I can use a word which means the opposite in a sentence.
If I am given a word, I can almost always use a word which means the opposite in a sentence.



Check List for

Teacher Evaluation of Goals Attained

Unit B

	Student's Name:
-	Date:
	WHICH OF THESE HAS THE STUDENT BEEN ABLE TO ACCOMPLISH DURING THE PAST WEEK?
C)	I will know what a compound word is.
<u> </u>	If I am given a compound word, once in a while I will be able to tell what words make it up.
	If I am given a compound word, most of the time I will be able to tell what words make it up.
-	If I am given a compound word, I will almost always be able to tell what words make it up.
	If I am given a list of words, once in a while I will be able to tell which ones are compound words.
	If I am given a list of words, most of the time I will be able to tell which ones are compound words.
0	If I am given a list of words, I will almost always be able to tell which ones are compound words.
	If I am given two words, once in a while I will be able to tell if they can be made into a compound word.
	If I am given two words, most of the time I will be able to tell if they can be made into a compound word.
	If I am given two words, I will almost always be able to tell if they can be made into a compound word.
	If I am given two words which can be made into a compound word, once in a while I will be able to combine them in the right way.
	If I am given two words which can be made into a compound word, most of the time I will be able to combine them in the right way.
	If I am given two words which can be made into a compound word, I will almost always be able to combine them in the right way.



	of a compound word.
	If I am asked to, most of the time I will be able to give an example of a compound word.
ت	If 1 am asked to, I will almost always be able to give an example of a compound word.
	Base Words and Endings Goal Check List
	I will know what a base word is.
	I will know what an ending is.
	If I am given a word, once in a while I will be able to tell what the base is and what the ending is.
	If I am given a word, most of the time I will be able to tell what the base is and what the ending is.
0	If I am given a word, I will almost always be able to tell what the base is and what the ending is.
<u>د</u>	If I am given a list of words, once in a while I will be able to tell which are base words with endings.
0	If I am given a list of words, most of the time I will be able to tell which are base words with endings.
0	If I am given a list of words, I will almost always be able to tell which are base words with endings.
0	If I am given a base word, once in a while I will be able to give an ending for it.
Ċ	If I am given a base word, most of the time I will be able to give an ending for it.
—	If I am given a base word, I will almost always be able to give an ending for it.



				-
				ord missing, once in a while I will d or a base word with an ending.
				ord missing, most of the timeI will d or a base word with an ending.
				ord missing, I will almost always a base word or a base word with
	If I am given a ba able to use them			ending, once in a while I will be
	If I am given a baable to use them			ending, most of the time I will be
	If I am given a batto use them in a s		nd an	ending, I will almost always be able
0	I will know what to of base words:	hese endi	n g s me	an and how they change the meaning
		ed		у
	c	s		est
		er	<u> </u>	tion
		ing		sion
		ly		ful1



Appendix D

GOAL-SETTING CONFIDENCE RATING SCALE USED FOR BOTH UNITS D AND B



Goal-Setting Confidence Rating Scale Units \tilde{D} and \tilde{B}

Name:		
Date:		
		T THE GOALS YOU HAVE CHECKED FOR THIS COMING WEEK AND SE QUESTIONS.
L. How	w ce	rtain are you that you will reach the goals you have set?
C		I am very sure I will.
—		I am pretty sure I will.
C.	===	I think I will.
C	=	I don't know if I will.
C	===	I don't think I will
2. How	w wel	ll will you learn the skills?
	\supset	I will be able to do them without help.
C	=	I will be able to do them with some help.
C	_	I will be able to do them only if someone helps me.
_	\supset	I don't know.
C	=	I won't be able to do them.



Appendix E

SUBTESTS OF THE WISCONSIN TESTS OF READING SKILL DEVELOPMENT USED IN UNITS D AND B



Name

1. C. 4.b.

Test 16 - Revised Synonyms and antonyms Unit D

EX	AMTLE	day n	ight	В. орг	ne osite ferent	=	day morning	A. B. C.	same opposite different	0 0 0
1.	close	open	A. B. C.	same opposite differen		9.	rush hurry	A. B. C.	same opposite different	0 0 0
2.	cîose	shut	A. B. C.	same opposite differer		10.		А. В. С.	same opposite different	0 0 0
3.	black	white	A. B. C.	same opposite differen		11.	over under	A. B. C.	same opposite different	000
4.	black	gray	A. B. C.	same opposite differer		12.	over above	A. B. C.	same opposite different	0 0 0
5.	hot	- cold	A. B. C.	same opposite differen		13.	all none	A. B. C.	same opposite different	000
6.	hot	- warm	A. B. C.	same opposite differen		14.	all some	A. B. C.	same opposite different	000
7	quit -	- start	А. В. С.	same opposite differen		15.	fast quick	A. B. C.	same opposite different	0 0 0
8.	quit -	- stop	A. B. C.	same opposite differen		16.	last slow	Λ. Β. C.	same opposite different	0 0



I. B 4.a.

Test 9 Compound words Unit B

EXAMPLE

A. looking \rightleftharpoons B. downtown \rightleftharpoons C. funny

		•
1.	A. elephant 📥	8. A. followed:
	B. always 👄	B. swimming
	C. bedroom -	C. goldfish
		o. gatarian
2.	. A. yellow □	9. A. picnic 👄
	B. package =	B. again
	C. somebody =>	C. policeman
		POLICEMENT
3.	A. birthday =	10. A. around =
	B. present =	B. anything =
	C. monkey 🖘	C. engine
4.	A. farmer 🖘	11. A. balloon =
	B. happened ←	B. cardboard
	C. barnyard 🖘	C. feather =
		•
5,	A. inside 🗁	12. A. yourself =
	B. yellow	B. bottom =
	C. rabbit 🗁	C. woman =
6.	A. herself -	13. A. window 👄
	B. painting 🖘	B. unbrella =
	C. tomorrow =	C. outside
7,	A. also 😀	14. A. between
	B. into	B. bathing ↔
	C. building	C. bathroom,
	• •	OF DICCIN CONCE.

1. B. 4.a.

Test 9 page 2

15. A. summer = B. sunshine = C. surprise =

17. A. bandage ⇒
B. beginning ⇒
C. blindfold ⇒

16. A. backstop == B. vegetable == C. beautiful ==



1. B 4.c.

Unit B Test 11 - Revised Base words and endings

Name

EXAMPLE

stronger - A. stron ger B. stronge r

C. strong er

- 1. playing B. play ing
 C. p lay ing
- 2. walked
 - B. walked _, C. walk ed
- 3. jumps -A. jum ps _B. jump s ⇔C. jum ps
- 4. running -A. ru nning B. run ning C. run ning
- 5. kitten's 🕳 A. kitten's B. kitten's C. kitten's
- 6. catches A. cat ches B. catch es - C. catch es

- 7. hitting A. hit ting B. hi tting
 C. hitt ing
- 8. boys B. boys ... C. boy s
- 9. going A. go ing
 B. goin g ⇔ C. go ing
- 10. pulled ⊸ A. pulle d ⇒ B. pul Ted
- 11. dog's = A. dog's = B. $\frac{\text{dog 's}}{\text{dog 's}}$
- 12. smaller ... A. small er B. sma Iler
 C. smal ler

Name

I. C 3.a.

Test 13 - Revised Base words Unit B

	EXAMPLE Susan was and spilled her milk	A. careless B. careful C. cared	000
1.	Bill took his dog for a walk.	A. gladly B. gladder C. gladful	
2.	Tom had to his shoe to take it off.	A. ties B. untie C. relie	
3.	Sally was so that she went to bed early.	A. sleepy B. sleepless C. sleeper	
4.	The kite climbed into the air.	1	000
5.	The cup with a hole in the bottom was	B. useless	I 0 0
6.	The sun shines	A. brightless B. brightness C. brightly	=
7.	The fight was because Joe was much bigger than Bill.	A. fairness B. unfair C. fairly	000
8.	There was because the team lost.	B. sadder	
9.	Tom was very to his little brother.	B, kind	
0.	Brian was because he lost his dog.	A. happiness: B. happily C. adappy	ස
۱.	Jack had to his bed after the dog		



I. C 3.a.

Test 13 page 2

12.		В.	refill filled unfill	נו
13.	No one could see the cat in the	В.	darker undark darkness	(1) (1)
14.	Mary saved Sue's life. Sue is	В.	thankful thankness thank	
15.	Jo wanted to her cat in doll	В.	undress dress	111

Appendix F

EXPERIMENTER-DEVELOPED TESTS FOR UNITS D AND B



TEST T FOR USAGE OF SYNONYMS AND ANTONYMS

Unit D

41 (41)	ic.		•
Dat	e:		
1.	Synonyms are words whi	ch	
	a. are spelled	alike.	
	b. mean the opp	osite.	
	c. mean the sam	e. ·	
2.	Antonyms are words whi	ch	
	a. are spelled		
	b. mean the opp	osite.	
	c. mean the sam	е.	
3.	Do these words mean op	posite things?	
	a. glass, wood	b. side, corner	c. win, lose
	yes	yes	yes
	no	no	no
4.	Do these words have the	e same or different m	meanings?
	a. row, push	b. tree, elm	c. run, trot
	same	same	same
	different	different	different
5.	Draw a line from each v		t to the word in the
	Over	Fall	
	Rise	Small	
	Tall	Pants	

Under

Sp!11

bress

Fil1



6. Draw a line from each word in the first list to the word in the second list which means the same thing.

Band Youngs ter
Child Leap
Finish Orchestra
Jump Couch
Sofa Complete

 Underline the word in the following sentence which means the same thing as <u>coat</u>.

The boy ran out of the house without his jacket and cap.

8. Underline the word in the following sentence which means the opposite of exciting.

Only once during the dull evening did something interesting and fun happen.

9. Underline the word in the following sentence which means the opposite of good.

The mischievous boy broke the window and ran away.

10. Underline the word in the following sentence which means the same thing as $\underline{\text{hat}}$.

The boy ran out of the house without his jacket and cap.

11. Check the word in the list below which means the same thing as the underlined word:

In spring the weather is warm and the grass green and beautiful.

- a. bountiful
- b. long
- c. pretty
- d. growing



	discontinued word.
•	In the winter the snow is often deep and cold days are frequent.
	a. few
	b. many
	c. often
	d. frigid
13.	Beside each of the words below, write a word that means the same thing
	a. Glove
	b. Run
	c. Talk
	d. Father
	e. Automobile
14.	Beside each of the words below, write a word which means the opposite.
	a. Ceiling
	b. Empty
	c. We's
	d. Bright
•	e. Right
15.	Write a sentence using a word which means the opposite of large.

16. Write a sentence using a word which means the same thing as America.

12. Check the word in the list below which means the opposite of the



- 17. Write a sentence using a word which means the same thing as cover.
- 18. Write a sentence using a word which means the opposite of smooth.

Base Words and Endings Unit B

Namo	e:		•	·	
Date	e:			•	
1.	Put an X in the	box next	to each word	which is made o	up of a base word
	and an ending.	Leave the	other boxes b	lank.	
	Example: 3	Walki:	ng		
,	C	Dogho Dogho	use .		
/	}	▼ Talke	d		•
	Barefoot	0	Turnkey	C Dod	Ing
0	Sleeps		Played	C Ju	pps
0	Reads		Lives	□ Sai	tisfy
പ	Someone		Raindrop	Cal	lling
2.	This is a list	of base w	ords with endi	ings. Draw a lin	ne between the
	base and the en	ding.			
	Example:	Walki	ng		
		Talke	d	•	
	Bumpy	ı	Gladly	7	
	Warped		Jumpeo	i	
	Player		Pushir	ng	
	Helps		Beatir	ng	
	Seeing		Pulled	i	
	Softly		Lucky		



			ending to each and write the
Example:	Wal	k <u>ing</u>	Walking
	Tal	k <u>ed</u>	Talked
Act		·	
Stay			
Say			
Call			<u> </u>
Do			
Catch			
Beat			
Rust	<u>·</u>		
Fly			
Grow			
Show			
Go		·····	
		-	next to each word which is each word which is
Example:	B Lea	ping	
	X Pusi	n	
	C some	eone	
_ Into	_	Book	_ Going
Everybody	_	Sews	Buttercup
Push		Seeing	Research
Falls		Pushrod	Feeling



COMPOUND WORDS - Unit B

11220	.							
DAT	E:							
1.	This is a te in each comp		und word	s. Draw s	a line	between	the two wo	ords
	Example:	snowball			•			
		barnyard	l					
		footbell	•				•	
	backbone		i	anhole			breakfast	t
	sunshine		m	11kweed			cupboard	
	beanstalk	·	8	tepsister			nowhere	
	bearskin		c	ountryside	e		mainsail	
2.	Put an X in boxes blank.	the box nex	t to eac	h compound	d word.	Leave	the other	
	Example:	starf	ish					
		👝 fishi	.ng					
		dogho	ouse					
	— spacema	n	C Wa	lking		—	bobcat	
	countdo	wn	☐ ba	ggage		=	mischief	
	c= bakery		ے su	nrise			hailstone	}
	── blueber	ry	æ ba	11room			forehead	
		٠						



					130
3.	Put an X	in the	box next to	the words which can m	ake a compound word.
	Example:	> ∞	w boy	(cowboy)	
		ca bo	y girl		
		cu	t hair	(haircut)	
		to	an down	(downtown)	
	clo clo	thes	bed	combouse	ship
	CII CUP	•	cookie	□ shoe	foot
	⇔ kni	fe	fork	c fruit	grape
	⊂⊐ cha	ir	man	c pile	snow
	c way	•	half	= stander	by
	مەر كىت	k	store	along	side
4.	Each pai word on	r of wo	rds can be n e after each	made into a compound wo h pair.	ord. Write the compound
4.	Each pai word on Example:	the lin	rds can be m e after each use bird	h pair.	ord. Write the compound
4.	word on	the lin	e after each	h pair.	ord. Write the compound
4.	word on	the lin	e after each	birdhouse	ord. Write the compound
4.	word on Example:	the lin	e after each	birdhouse	ord. Write the compound
4.	word on Example: pipe	the lin ho pl	e after each	birdhouse	ord. Write the compound
4.	word on Example: pipe any	the lin ho pl bag body	e after each	birdhouse	ord. Write the compound
4.	pipe any by	the lin ho pl bag body stand	e after each	birdhouse	ord. Write the compound
4.	pipe any by skirt	the lin ho pl bag body stand hoop	e after each	birdhouse	ord. Write the compound
4.	pipe any by skirt hand	bag body stand hoop shake	e after each	birdhouse	ord. Write the compound



Appendix G

READING SKILLS ATTITUDE QUESTIONNAIRES USED IN UNITS D AND B



SYNONYM AND ANTONYM READING SKILL GROUP ATTITUDE QUESTIONNAIRE

Unit D

Nam	e:	
Date	e:	
1.		ym and antonym reading skill class is
	a.	Very interesting
	b.	Pretty interesting
	c.	Interesting
	d.	Not very interesting
	e.	Not interesting at all
	,	·
2.	How much	did you learn in your synonym and antonym reading skill class?
	a.	A lot
	o.	Some
	c.	Not much
	d.	Nothing
3.	Learning	about cynonyms and antonyms was
	a.	A lot of fun
	გ.	Fun sometimes
	c.	Not much fun
	d.	Not fun at all



READING SKILLS ATTITUDE QUESTIONNAIRE $\qquad \qquad \text{Unit } B$

DAT	E:		
Put	an >	(in	the box next to the words that tell what you think.
1.	Lear	ning	about compound words and base words and endings was:
		a.	very interesting.
		b.	pretty interesting.
	<u>—</u>	c.	interesting.
	0	d.	not very interesting.
		ę.	not interesting at all.
2.	How	much	did you learn about compound words and base words and endings?
	C	a.	a lot.
		ъ.	some.
	പ	c.	not much.
	ت	d.	nothing.
3.	Lear	ning	about compound words and base words and endings was:
	<u></u>	a.	a lot of fun.
		ъ.	fun sometimes.
	0	c.	not much fun.
		đ.	not fun at all.



NAME:

$\label{eq:Appendix H} \mbox{\sc Data for subjects in units D and B on all dependent measures}$



TABLE 27

Data by Subject on all Dependent Measures: Unit D

Goal-Setting

Confidence Score	2	е	7	S	S	S	9	м	٣	7	7	S	7	7	7	
Difference	63	01	14	19	80	80	14	02	03	01	11	18	92	24	02	
Number of Goals Set	33	31	30	35	24	24	30	32	07	26	38	34	33	70	18	
WTRSD Synonyms & Antonyms	1.4	12	15	11	16	11	07	15	. 15	. 15	14	13	60°	11	70	
E-Developed Synonyms & Antonyms	32	29	33	28	29	30	27	33	33	30	33	30	28	30	21	
Skill Attitude	90	60	60	80	07	20	60	90	07	80	60	60	07	80	02	
Reading Attitude	07	03	8	05	8	03	8	90	15	10	18	02	60	90	00	
Previous Achieve- ment High 1 Medium 2 Low 3	1	п	П	2	8	e	e	н	ਜ	ન	7	2	61	٣	٣	
Sex Malc 1 Female 2	1	1	7	-	1	П	-	2	7	7	2	2	2	2	2	
ωl	-	7	ო	-4	2	w	7	œ	6	10	11	12	ដ	14	15	



Conference

																	1	136	
	Confidence Score	9	9	7	ທ	૭	*7	7	7	7	y	νs	ហ	7	7	7	7	7	7
	Difference	13	03	60	03	80	18	17	10	23	70	90	03	03	11	11	्रा	07	19
	Number of Goals Set	29	41	38	30	38	34	07	41	38	20	36	17	07	41	41	36	34	35
	WTRSD Synonyms & Antonyms	60	12	11	11	11	07	60	14	12	15	11	13	15	11	13	14	80.	10
חחוכוכוכב	E-Developed Synonyms & Antonyws	31	32	33	32	31	25	25	28	28	32	34	36	27	31	32	31	33	21
	Skill Attitude	60	60	60	60	02	92	02	70	60	07	٠ <u>٠</u>	92	80	07	70	60	60	07
	Reading	10	04	1.5	65	18	01	92	8	60	60	92	03	90	03	70	95	90	60
	Frevious Achieve- ment High 1 Medium 2 Low 3	7	1	7	2	2	2	m	m	m	-	н	-	2	2	2	m	n	m
	Sex Male 1 Female 2	1	п	7	гđ	-	Н	-	Н	н	2	7	2	2	2	2	2	2	લ
	ωl	17	18	19	50	21	22	23	24	25	56	27	28	29	30	31	32	33	34



ωl	Sex Male 1 Female 2	Previous Achieve- ment High 1 Medium 2 Low 3	Reading Attitude	Skill Attitude	E-Developed Synonyms & Antonyms	WTRSD Synonyms & Antonyms	Number of Goals Set	Difference	Confidence Score
35	1	1	8	03	30	12	36	90	7
36	7	ч	8	70	32	14	41	11	တ
37	-1	7	8	90	32	15	38	90	y
38	1	2	02	07	28	10	30	80	·o
39	1	2	01	02	31	14	38	16	9
07	-	2	18	60	29	10	07	10	V١
41	1	m	00	. 20	26	12	20	70	5
77	н	m	01	70	59	11	33	17	9
43	-	ო	01	90	26	11	31	1.5	ω
77	2	7	10	60	29	15	36	20	9
45	2	1	11	80	31	12	32	02	5
97	7	н	90	60	32	11	34	11	9
47	2	2	05	60	30	80	07	02	5
84	2	2	03	07	30	1.4	35	13	7
67	7	2	02	70	31	14	26	13	S
20	2	ო	90	60	29	11	35	19	9
51	7	m	90	07	25	60	38	. 80	5
52	2	ю	01	60	31	10	36	70	7



TABLE 28
Data by Subject on all Dependent Measures: Unit B

Goal-Setting

Confidence Score	_	7	9	Ŋ	. ທ	9	7	œ	ار	7	7	7	· ∞	· v	S	S
Difference	8	12	02	05	70	05	00	8	60	, 8	90	11	07	12	51	90
Number of Goals Set	33	28	30	56	29	25	23	33	32	22	29	27	28	25	28	56
WTRSD Level C Base Words	10	12	15	14	15	#	07	15	14	20	12	14	11	11	07	01
WTRSD Level B Base Words	7.7	12	11	22	12	17	10	12	12	70	11	12	07	11	01	07
E-Developed Base Words	97	94	45	70	47	э́с	32	45	43	38	77	43	37	25	07	77
WTRSD Compound Words	17	. 17	14	13	17	13	80	16	17	13	1.5	16	11	10	11	14
E-Developed Compound Words	37	34	36	34	33	33	25	38	36	32	34	34	34	20	18	25
Skill Attitude	13	13	07	13	11	11	11	13	13	13	13	10	13	13	13	12
Reading Attitude	070	05	90	11	00	01	01	07	13	10	05	70	80	07	90	8
Previous Achieve- ment High 1 Medium 2 Low 3	н	ı	ı	2	7	m	က	.	ਜ	H	7	7	7	က	က	က
Sex Male 1 Female 2	H	н	п	Т	н	н	H	7	7	7	7	7	2	2	7	2



,																		
	Confidence Score	9	7	9	7	^	က	4	∞	∞	7	S	7	9	'n	80	œ	7
	Difference	90	60	60	60	60	16	60	16	00	60	17	03	16	08	07	90	80
	Number of Goals Set	28	32	30	31	32	30	31	33	33	32	32	56	30	30	28	27	29
!	WTRSD Level C Base Words	12	12	11	10	ç,	07	90	12	14	07	7	. 40	97	10	11	11	ដ
	WTRSD Level B Base Words	05	77	03	90	70	90	03	12	12	03	80	60	9	12	10	90	80
	E-Developed Base Words	37	77	38	37	77	16	37	36	41	40	35	77	41	45	36	41	۲۶
Conference	WTRSD Compound Words	ដ	14	12	80	13	63	7	12	15	13	15	13	80	91	10	12	14
Con	E-Developed Compound Words	78	34	29	23	34	20	22	32	35	29	28	31	31	36	31	20	29
	Skill Attitude	13	13	13	60	60	80	12	60	11	13	13	13	60	13	60	13	13
	Reading Attitude	70	60	07	10	04	02	07	90	60	90	20	70	03	07	80	07	12
	Previous Achieve- ment High 1 Medium 2 Low 3	ч	7	2	7	7	เา	ო	ო	П	-	7	7	7	2	m	3	က
	Sex Male 1 Female 2	H	н	7	Н	ч	H	н	H	7	7	7	7	7	7	2	2	7
	<u>s</u>	17	18	19	70	21	22	23	77	25	26	27	28	29	8	31	32	33
•	'																	



	<u>s</u>	34	35	36	37	38	33	9	41	75	43	77	\$7	9†	7.7	%	67	20	51
	Sex Male 1 Female 2	н	н	н	н	н	н	н	н	-	7	7	7	7	2	2	7	2	2
	Previous Achieve- ment High 1 Medium 2 Low 3	ч	н	ч	2	7	2	m	m	٣	e:	н	-1	7	2	7	က	ĸ	က
	Reading Attitude	07	80	02	90	60	07	90	08	01	03	07	07	90	60	80	0.7	10	92
	Skill Attitude	13	13	13	12	13	11	13	13	10	11	13	13	12	13	.II	11	12	13
	E-Developed Compound Words	34	32	56	27	26	37	27	32	19	38	33	33	36	32	23	28	25	21
Control	WTRSD Compound Words	16	10	13	16	92	14	12	11	10	12	1.5	11	16	12	10	05	os	14
	E-Developed Base Words	77	42	22	40	26	39	28	30	19	45	42	40	41	32	39	39	75	35
	WTRSD Level B Base Words	Ħ	10	05	12	90	12	90	07	90	11	80	12	11	12	70	12	07	12
	WTRSD Level C Base Words	13	15	80	21	60	60	90	70	05	<u>10</u>	80	11	05	10	60	60	60	07
	Number of Goals Set	28	28	33	33	33	32	31	33	28	8	30	33	29	33	27	30	29	28
	Difference	90	05	17	8	21	60	15	98	51	03	15	12	90	20	Ħ	15	12	13
	Confidence Score	7	4	9	7	œ	œ	S	2	တ	4	. 7	ო	œ	Ŋ	9	7	C1	ო



Appendix I

MAGNITUDE, DIRECTION, AND MEAN DIFFERENCE SCORES AS A FUNCTION OF TREATMENT IN UNITS D AND B



Table 29

Frequency Table Representing Magnitude and Direction

of Difference Scores (Number of Goals Set Minus

Number of Goals Attained) as a Function of Treatment: Unit D

Treatment Group

	Goal-Setting N=16	Conference N=18	Control N=18
Number of \underline{S} 's who attained 11-15 more goals than they set	1 .	O _.	0
Number of \underline{S} 's who attained 6-10 more goals than they set	0	. 1	2
Number of S's who attained 1-5 more goals than they set	1	2	1
Number of \underline{S} 's who attained the same number of goals as they set	0	o (0 '
Number of S's who attained 1-5 fewer goals than they set	6	3	3
Number of S's who attained 6-10 fewer goals than they set	3	4	3
Number of S's who attained 11-15 fewer goals than they set	2	3	5
Number of S's who attained 16-20 fewer goals than they set	2	4	4
Number of S's who attained 21-25 fewer goals than they set	1	1	0

Sum of Difference scores	Goal-Setting -108	Conference -161	Control -149
Number of $\underline{S}^{\dagger}s$	16	18	18
Average Difference Score	-6.75	-8.9	-8.3
	}^ { A		



Table 31

Frequency Table Representing Magnitude and Direction

of Difference Scores (Number of Goals Set Minus

Number of Goals Attained) as a Function of Treatment: Unit B

Treatment Group

·	Goal-Setting		
Number of \underline{S} 's who attained 1-5 more goals than they set	N=16 1	N=17 0	N=18 1
Number of \underline{S} 's who attained the same number of goals as they set	4	1	1
Number of S's who attained 1-5 fewer goals than they set	4	1	1
Number of S's who attained 6-10 fewer goals than they set	3	11	4
Number of S's who attained 11-15 fewer goals than they set	3	0	8
Number of S's who attained 16-20 fewer goals than they set	1	4	2
Number of S 's who attained 21-25 fewer goals than they set	0	0	1

Table 32

Mean Difference Scores as a Function of Treatment: Unit B

Sum of Difference scores	Goal-Setting -81	Conference -157	-197
Number of S's	16	17	18
Average Difference Score	-5.1	-9.2	-10.9



Appendix J DESCRIPTION OF EXPERIMENTAL POPULATION



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Descripcion of Experimental Population

- Age: Students in Units D and B of a multi-Unit elementary school served as subjects in the study. Students in Unit D would normally be in grades 3 and 4, while students in Unit B would normally be in grades 1 and 2. Students in Unit D would be 8 and 9 years of age while students in Unit B would be 6 and 7 years old.
- Sex: Students in the experimental population were equally divided between males and females within each Unit.
- Socio-Economic status: The school from which the experimental population was drawn is located in an upper lower-class meighborhood. Many of the parents are employed in mearby manufacturing plants.

 Thirty per cent of the students in the school are from either ADC or welfare homes and over fifty per cent are from broken homes.
- Race: All students in the school from which the experimental population was drawn .re Caucasian.

Appendix K

TECHNICAL CHARACTERISTICS OF EXPERIMENTER-DEVELOPED TESTS



Table 32

Technical Characterístics of Experimenter-Developed Tests

Test	Number of Items	Mean Score	Standard Deviation	Range of Scores	Standard Error of Measurement	Hoyt Reliability
Unit D: Synonyms and Antonyms	37	29.26	4.02	21	2,6367	.7425
Unit B: Compound Words	4	29.67	5.83	22	2.4362	8067.
Base Words and Endings	. 87	38.04	7.31	31	2.0121	. 8365

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